

PATENT ABSTRACTS OF JAPAN

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(21)Application number : 01-027546

(71)Applicant : FUJITSU LTD

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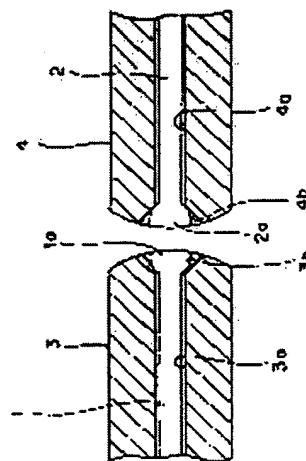
(72)Inventor : NAGANUMA NORIHISA

(54) FIXING STRUCTURE FOR OPTICAL FIBER TO FERRULE

(57)Abstract:

PURPOSE: To maintain high optical coupling efficiency by seating expanded spherical parts formed atop of optical fibers on the beveled parts of optical fiber insertion holes of ferrules and performing spherical machining.

CONSTITUTION: The beveled parts 3b and 4b are formed on the ferrule end surface sides of the optical fiber insertion holes 3a and 4a of the ferrules 3 and 4, the optical fibers 1 and 2 are inserted into the ferrules 3 and 4, and the tips of the optical fibers 3 and 4 projecting from the ferrule end surfaces are heated to form the expanded spherical parts 1a and 2a. Further, the expanded spherical parts 1a and 2a are seated on the beveled parts 3b and 4b and the end surfaces of the ferrules 3 and 4 are machined spherically together with the expanded spherical parts 1a and 2a. Consequently, the high optical coupling efficiency can be maintained without using an adhesive with high adhesive strength.



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PATENT ABSTRACTS OF JAPAN

(11)Publication number : 53-084738

(43)Date of publication of application : 26.07.1978

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(21)Application number : 51-159391

(71)Applicant : FUJITSU LTD

(22)Date of filing : 30.12.1976

(72)Inventor : SASAKI MASARU
OKAMOTO AKIRA
FURUTA YOSUKE
KUDO TATSUO

(54) CONNECTING METHOD OF OPTICAL FIBERS

(57)Abstract:

PURPOSE: To enhance coupling efficiency and miniaturize connecting part by fixing two optical fibers, each being integrally fitted with a small lens emitting parallel light to its end part, by butting their lens convex faces.

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